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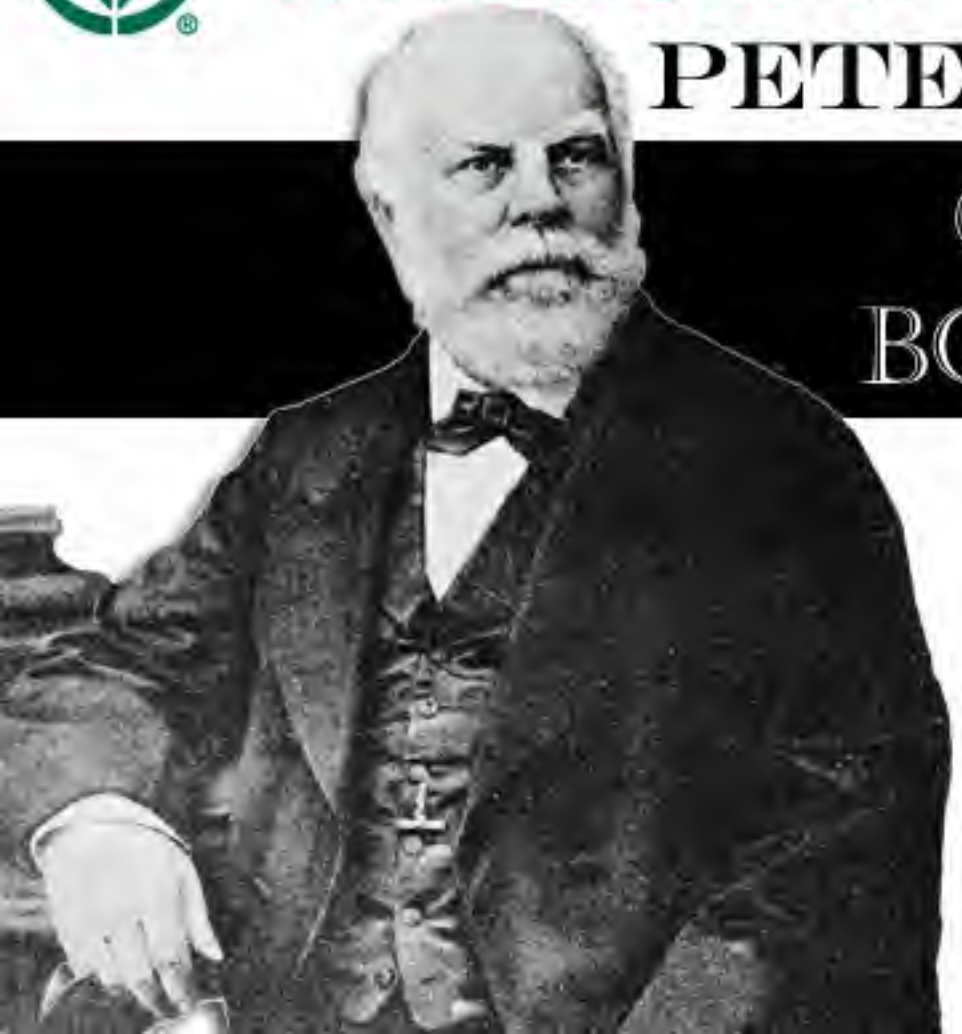

Pagination Note:
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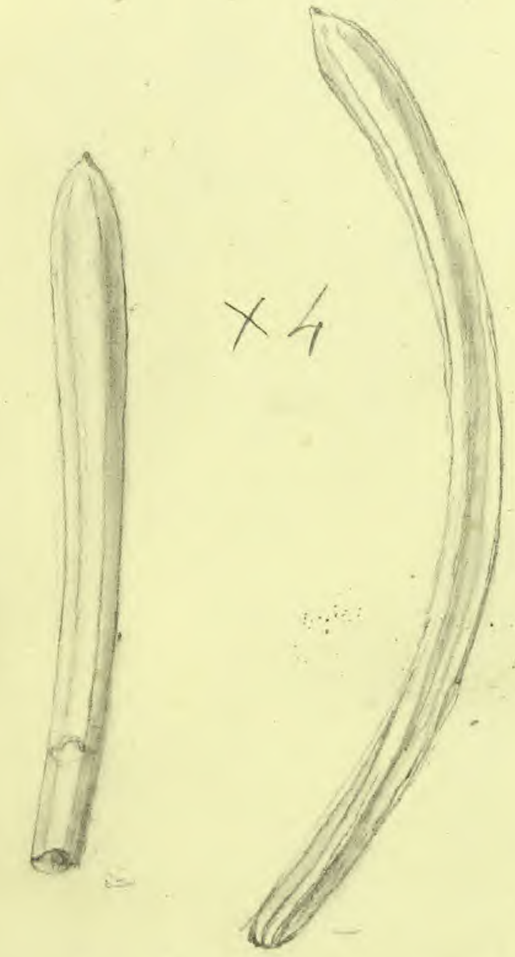
Picea alba

Gimbar

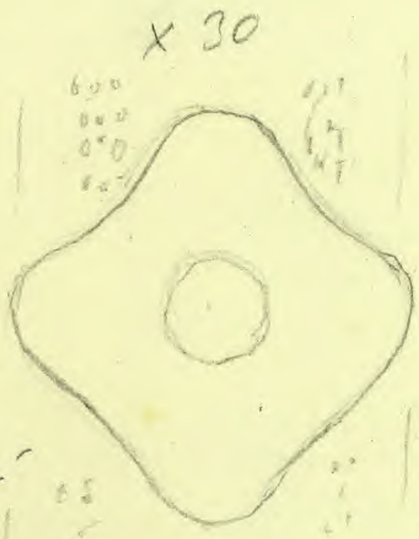
June 1863

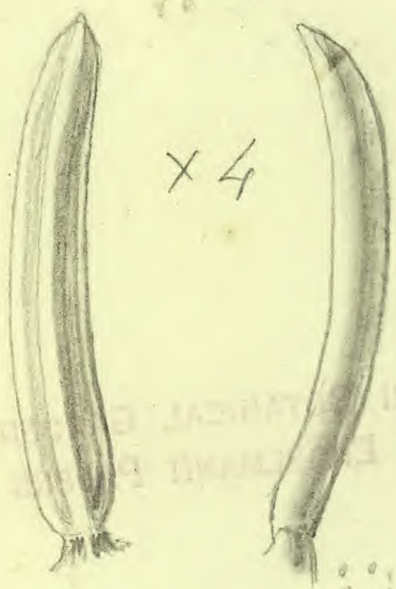
ad. vivum

Leaves of last year

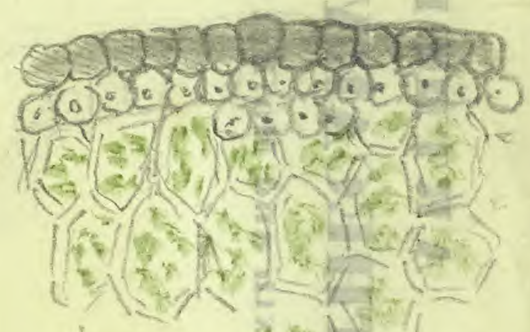


leaves of staminiferous branch





leaves of fructiferous branch



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* "Arbor excelsa, coma anguste pyramidali, ramis brevibus subverticillatis superioribus erectis, mediis horizontaliter patentibus ac inferioribus pendulis cum apicibus arcuatim adscendentibus ; ramulis hirsutis ; foliis solitariis, rectis aut incurvis planiusculis nervo utrinque prominulo obsolete tetragonis apice acuminatis acutis aut obtusis cum apiculo cartilagineo superiore pagina eximie glaucis ; strobilis sat parvis oblongis in ramis variæ longtitudinis erectis, horizontaliter patentibus aut pendulis, squamis a basi cuneata subrotundis, dorso sub apice striatis margine eroso-denticulatis, bracteis obovato-cuneatis apice denticulatis, sua squama multo brevioribus ; nuculis parvis obovatis ala obovata-cuneata subobliqua margine subintegra triplo brevioribus. *J. Pancic.*"

PINUS OMORIKA, *Pancic.**

At p. 470 of the present volume will be found some notes on this tree, and from the same source (*Monatsschrift des Vereines zur Beförderung des Gartenbaues*, &c.) we now extract the original description, given below, and the following additional particulars. One of the most noteworthy characters, Dr. Bolle says, pointed out by Dr. Pancic, resides in the glaucous upper surface of the leaves, but this is at present rather obscure, because, as is well known, the position of the respective surfaces of the leaves of many species of this section is reversed by a twist of the petiole. According to Braun, P. Omorika differs in an essential character from P. orientalis, to which it is closely allied, in having no stomates on the under-surface of the leaves, and agrees in this respect with some of the species inhabiting Eastern Asia. The special localities at present known for this Pine are the rugged mountainous districts of South-Western Servia, near Zaovina, where it is rather rare, and more abundantly at Crvena Stena, above Rastitse. The natives also report it from Jangac, above Stula, in Bosnia, and Dr. Pancic has recently ascertained that the tree is known throughout the Czernagora.

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Mr. P. Ladds, Bexley Heath, for Group of Pla
Banksian.
H. J. Atkinson, Esq., Acton (Mr. Hudson, Gr.
Decorations. Bronze Banksian.
Mr. W. Young, Camden Town, N.W., for Table
Bronze Banksian.
Mr. W. Poupart, Twickenham, S.W., for Collec
tables. Bronze Banksian.
Messrs. J. & M. Poupart, Twickenham, S.W., fo
Vegetables. Bronze Banksian.
Rev. J. R. Watson, Guernsey, for Collection of G
Banksian.
Mr. J. Smith, Kingsland Road, N.E., for Engli
Salad. Bronze Banksian.

12491A

Silver Flora.
Messrs. W. Cutbush & Son, Highgate, N., for
Small Silver Banksian.
J. G. Hepburn, Esq. (Mr. Loveland, Gr.), Ke
Orchids. Small Silver Banksian.
R. Thornton, Esq. (Mr. A. Ratty, Gr.), Syde
of Azaleas. Small Silver Banksian.
Mr. S. Ford, Gr. to W. E. Hubbard, Esq.,
Apples and Pears, and Cut Blooms c
Niel. Small Silver Banksian.
Mr. J. Laing, Forest Hill, S.E., for Group
Messrs. Osborn & Sons, Fulham, S.W., for
Small Silver Banksian.
Messrs. J. Standish & Co., Ascot, for Group
Silver Banksian.
Mr. C. Turner, Slough, for Group of Auric
Small Silver Banksian.
Mr. J. Burley, Bayswater, W., for Group
Small Silver Banksian.
Messrs. James Carter & Co., High Holborn
Plants. Small Silver Banksian.
Messrs. C. Lee & Son, Hammersmith, W.,
Small Silver Banksian.
Messrs. C. Peckwith & Son, Tottenham.

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A New European Picea

Picea Omorika, Pančić

(Belgrd)

Servia

well distinguished from Excelsa.

(C. Bolle Febr 26 1877)

approaches east Asiatic species

Bexley Heath, for Group
Esq., Acton (Mr. Hudso
ns. Bronze Banksian.
Camden Town, N.W., for
nksian.
t, Twickenham, S.W., for
ronze Banksian.
Poupart, Twickenham, S
. Bronze Banksian.
on, Guernsey, for Collectio
ngsland Road, N.E., for
onze Banksian.
& Son, Highgate, N.,
anksian.
. (Mr. Loveland, Gr.),
ll Silver Banksian.
Mr. A. Ratty, Gr.), Syd
mall Silver Banksian.
W. E. Hubbard, Esq
ears, and Cut Blooms
ilver Banksian.
Hill, S.E., for Group
ons, Fulham, S.W., for
nksian.
Co., Ascot, for Group
n, for Group of Auric
nksian.
ater, W., for Group o
nksian.
& Co., High Holborn, W
ilver Banksian.
Hammersmith, W., for
ksian.
Son, Tottenham, for

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12 tab

P. nigra

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cm
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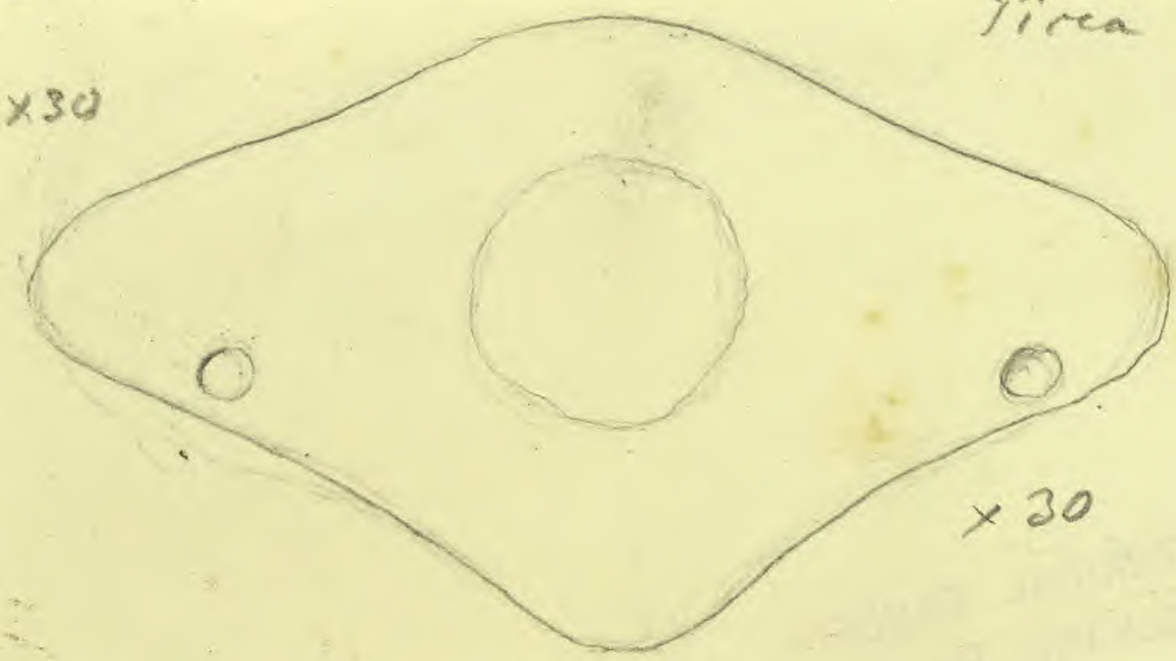
Picea nigra (mitis)
quebec
O. Brunet

June 1863
ad viv

×30



×30

×4

Stoutest
leaves
3 years old
on vigorous
shoot

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Abies nigra

1½ inch

White Mountains

JE Peabody rock

Sept 1856

Oct. 1862

8/13

pubescent

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Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

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· Abies nigra obtusifolia

Oct 1862
& Nov

palescent

gr Willards Mountain
Sept 1856

4 3/4 inch long

(8/13) - 18/21

colour of wipe (not yet open)
cone brown-purple

X10

6 (rarely 7)
Cotyled.

Longitud section
of scale

X10.

same cone
open

upper side

X2

lower side
towards
scale

12495

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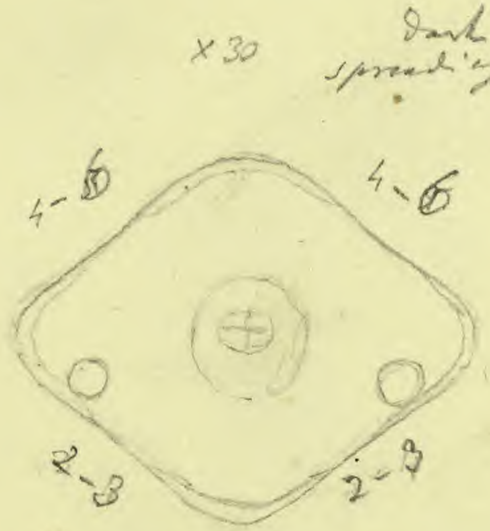
Picea nigra ?

July 4 1878

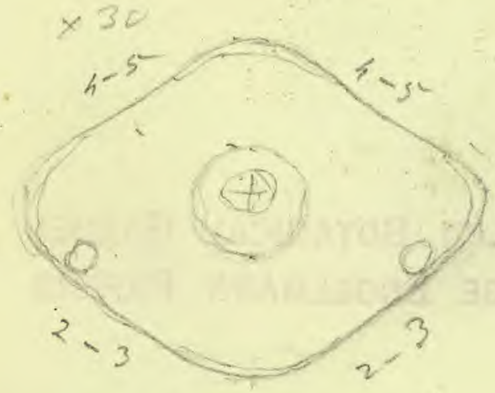
Hort Bot Woodstock



series of stomata

hypoderm along all corners interrupted by the series of stomata with 4 vittae

very dark erect foliage, appressed (Michigan)



series of stomata

leaf sections

Thickness to width = 27 : 33

= 24 : 33

abt 3 : 4

ARTHUR HOLLICK
Staten Island, N.Y.
Botanical Laboratory

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301 South Fifth, S. W. Cor. 5th & Myrtle, St. Louis, Mo.

℞

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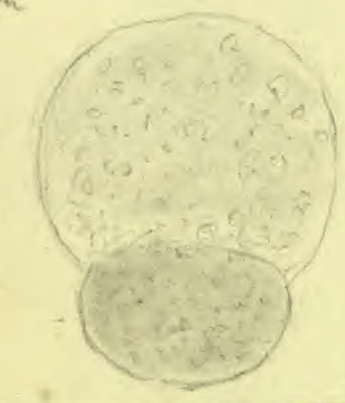
May 1863

Pollen of P. sylvestris
abnorm

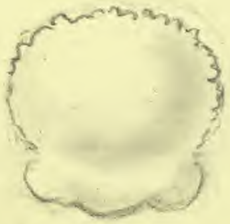


×415

Picea nigra
Hort Bot Missouri 4 May

×4

×10



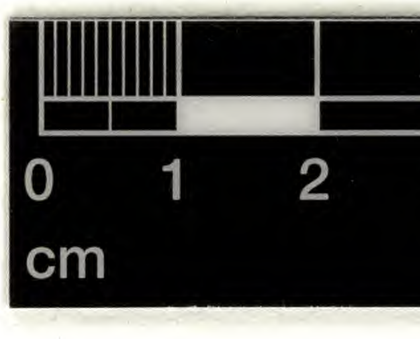
×4

young fruit (flowers probably
about middle of April

×415

=0,049‴

all the few pollen grains
seen of this shape



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MARTIN BRANNAN,
APOTHECARY,
379, N. E. CORNER BROADWAY & O'FALLON STREET,
SIGN OF THE BLUE AND GILT MORTAR.

6406 / 2030 / 1662 / 3700 / 9735 / 514

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Pinus nigra

April 25 — 1865 —

Hab Messina just in flower

Pollen x415

0.040 — 0.047 lin

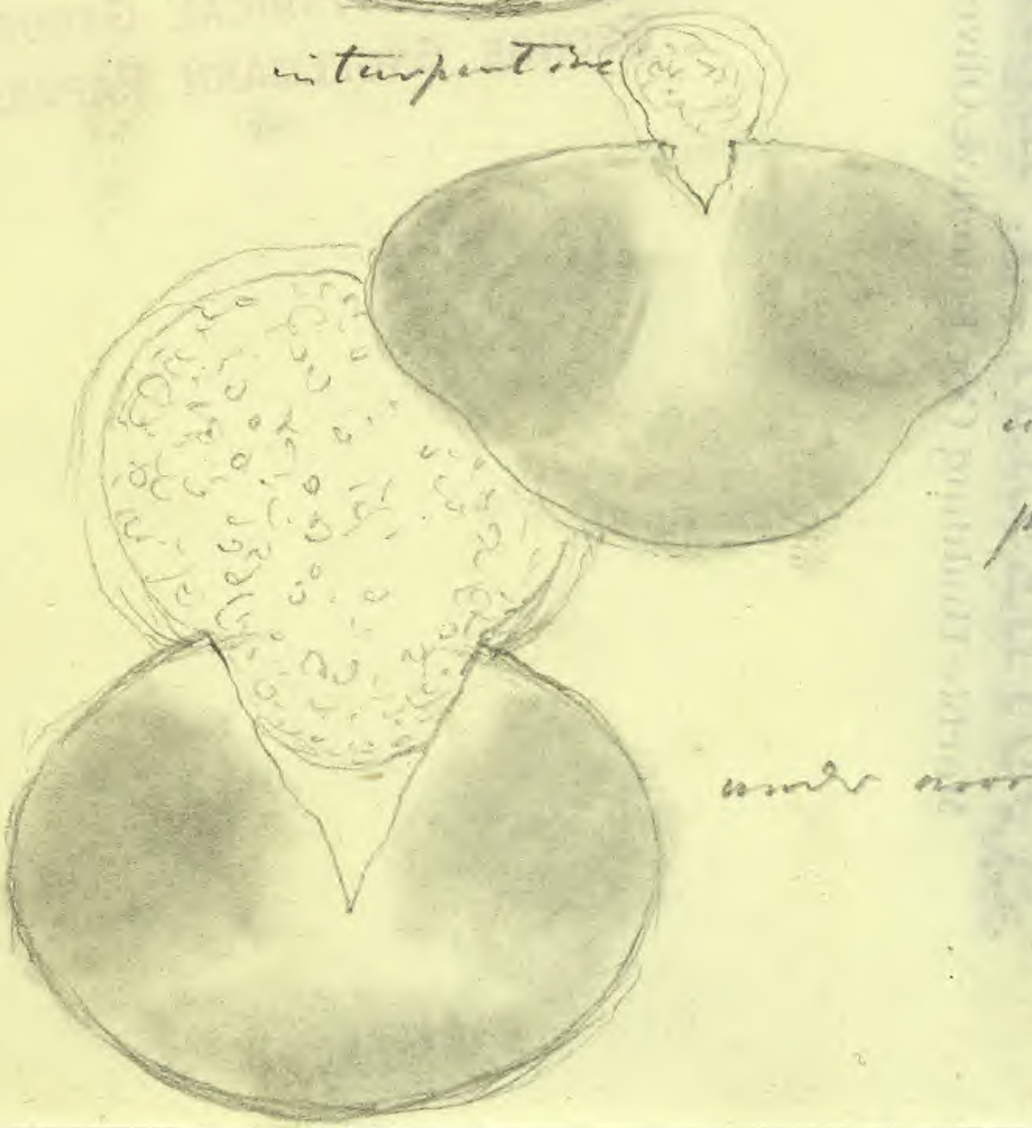
Pollen 17–20 / 415 lin

0.041 — 0.048 lin

mostly 0.045

in turpentine

in water



in Sulph Ac[illegible]

under slight pressure

under more pressure

in turpentine

Gas bubbles in water?

in each cell

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Abies nigra
var

Niagara
JC Elag. 1856.

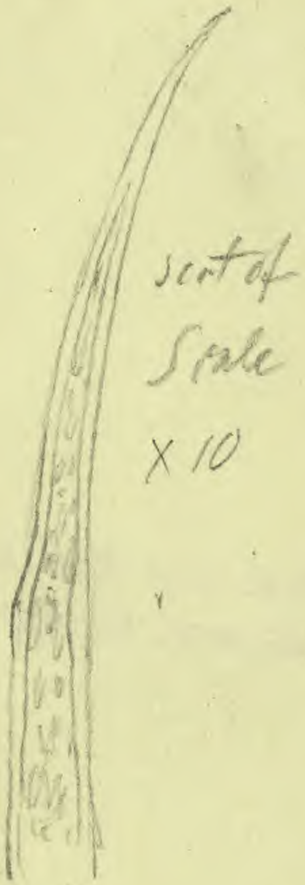
Oct 1862

Illinois boy

(5/8) - 8/13

colour light brown

x2



sort of Scale

X 10

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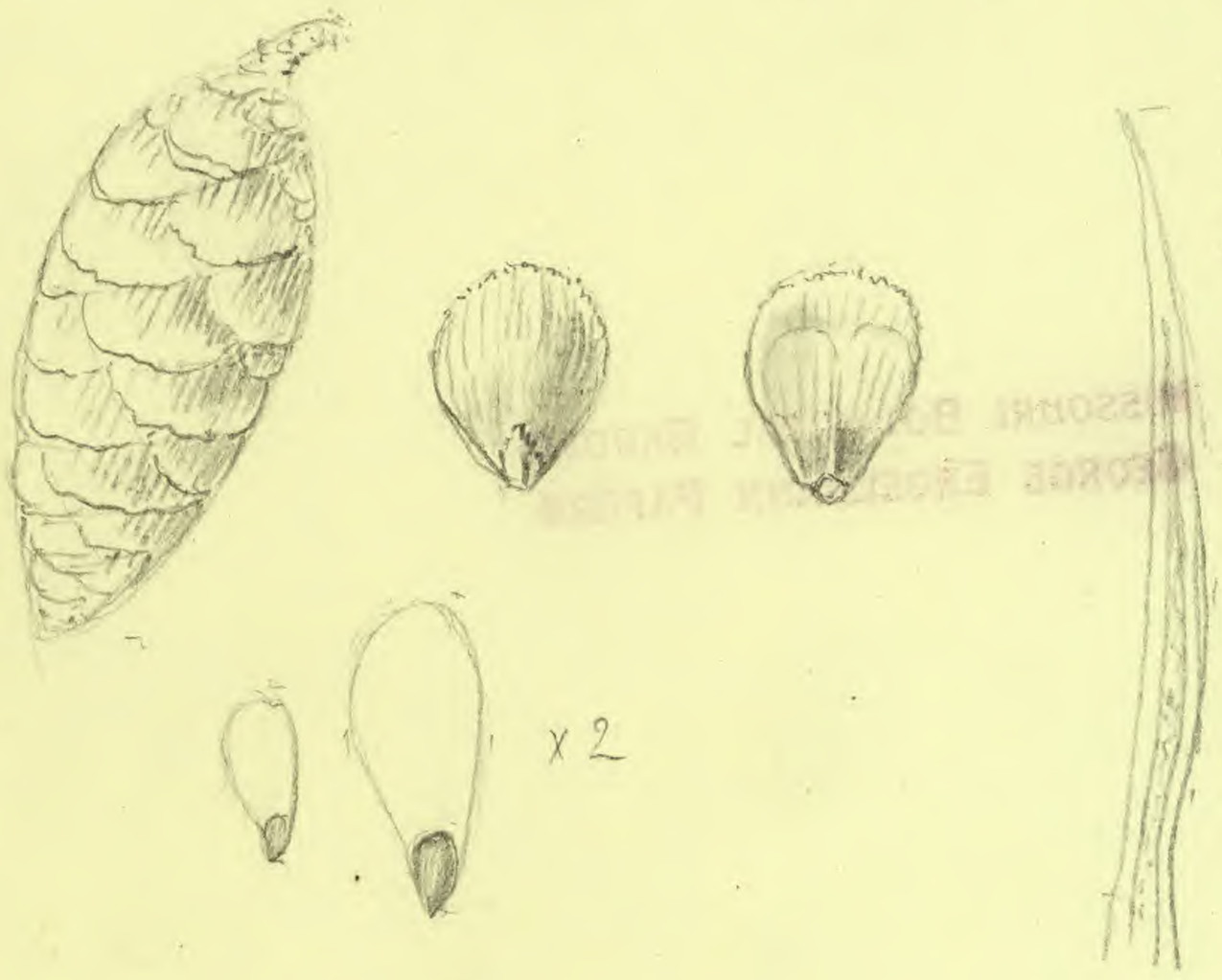
Abies nigra

New York, & Parry

Nov 1862



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Pinus nigra

May 11 1867

tree south of Shaw's House, at the Gate of
private Garden south of
the Cypress Trees
just flowering

Pollen grains ×415

0.090–0.107 mm long

0.042–0.050 lin

×10

crest of anther purple

anthers sheaths & branches
Pinus is alba

breadth of purple crest
nearly equal to length of
anther

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March 19 1780

Picea nigra

latifolia, obtusata – pubescent; dk red or
lower part of joints – leaves with 4 or even
5 series of stomata on each of the upper sides
and 2–3 on the lower ones.

angusta acuta entirely glabrous, leaves
slender, acuminate, 2–3 series
of stomata above on each side, 1–2 below
both acute with a distinct outer [illegible]
nearly pubescent

P. alba glabra; buds glabrous with orbicular
scales entire ovate nearly a little acuminate,
leaves with 2, rarely 3 series of stomata
above and 1 rarely 2 – below on each side

12502

Seitla sind merk. vo
die Blüthen pflanzen
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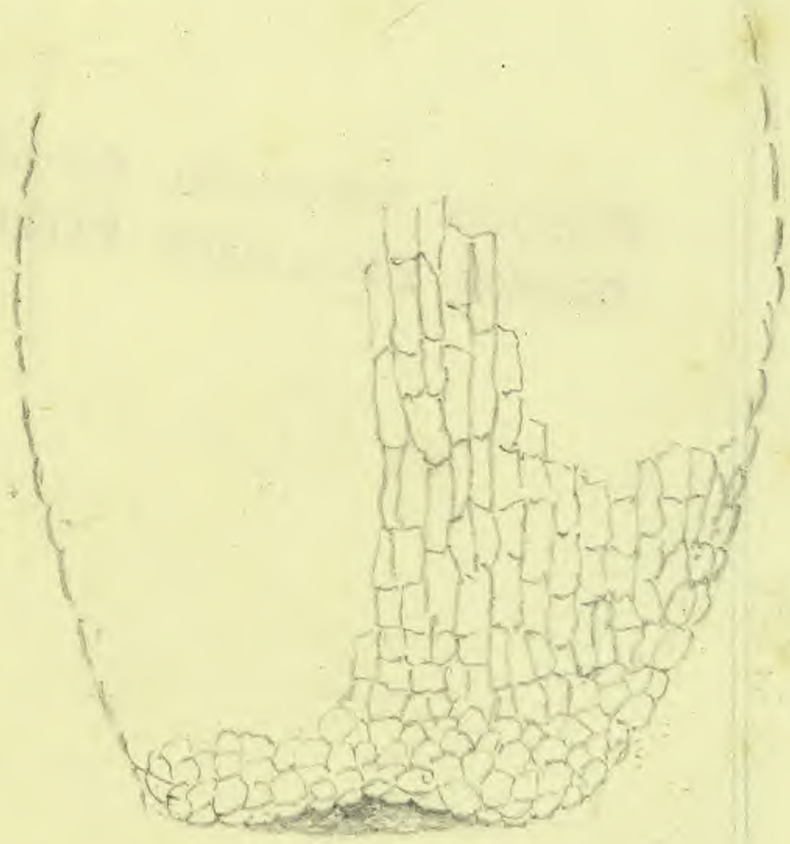
Picea "griseo"
Gruber

June 14 1963

×60

ovule

×153



nucleus

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Pinea grisea June 1863

Quebec May 1863

last years cone soaked

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"Pinea grisea"
Gibert

Jour 1863
ad viv

×415

0.046

×10

×10

0.050

×4

Fem. ament.

×4

×30

male ament, a little before fully opening

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